

Work Order ID 109193-1

November-14-13 7:06:26 AM

109193

Page 1

Item ID: D4857-1

Revision ID:

Item Name: Outer Deflector, LH

Start Date: 11/14/13

Start Qty: 10.00

10

Required Date: 11/22/13

Req'd Qty: 10.00

10

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run

Start

NR1

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D4857

100

0.00

100

Purchasing

Purchasing

Memo

Issue P/O: 22048

Possible supplier: CARBON BY DESIGN

Manufacture as per dwg

Prime Deflector as per dwg (SEE NOTE 4)

Certificate of Conformity release note is required.

0.00

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Packaging

Memo

0.00

N9000040100

Setup Start

NS1

Stop

NS2

Cust Item ID:

Customer:

13/1/14 m/f

12/1/15 (4)

Work Order ID 109193

November-14-13 7:06:26 AM

109193

Page 2

Item ID: D4857-1

Accept

N9000040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Outer Deflector, LH

Start Date: 11/14/13 Start Qty: 10.00

10

Cust Item ID:

Required Date: 11/22/13 Req'd Qty: 10.00

10

Customer:

Reference:

Run Start *NR1*

Approvals: Process Plan:

Date:

Tooling:

Date:

Stop *NR2*

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan Code Accept Qty Reject Qty Reject Number Insp. Stamp

120

QC5- Inspect part completeness to step on W/O

0.00

27

9-89

120

QC

Memo

0.00

Quality Control

130

Identify as per dwg & Stock Location: _____

0.00

130

Packaging

Memo

0.00

Packaging

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

DAS
32
9-89

13/11/27

13-11-24

Picklist Print

November-14-13 7:06:26 AM

Page 1

Work Order ID: 109193
Parent Item: D4857-1
Parent Item Name: Outer Deflector, LH

Start Date: 11/14/13

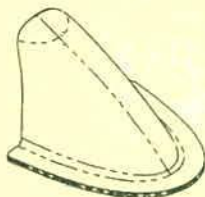
Required Date: 11/22/13

Start Qty: 10.00

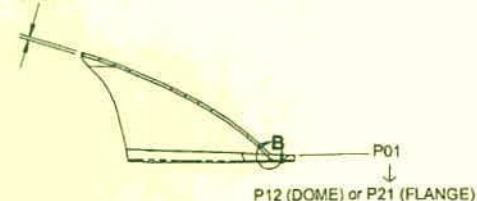
Required Qty: 10.00

Comments: IPP REV:A NEW ISSUE 13.10.18 DD VERIFIED BY:JLM

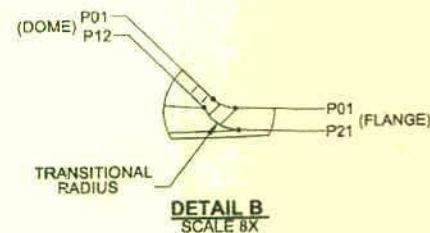
| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| D4857-1P Wiper Deflector | | Purchased | No | | | | Each | 0.0000 | | 10 | | 11/25/13 | (4) |



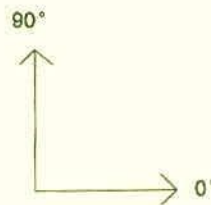
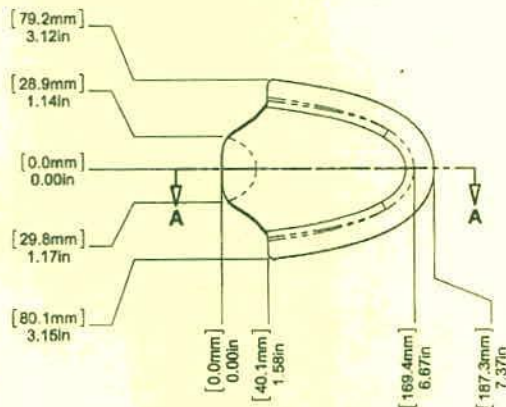
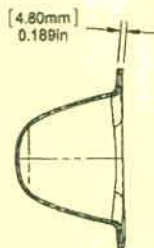
[2.74mm]
0.108in



SECTION A-A
SCALE 1X



DETAIL B
SCALE 8X



cto
10/19/93

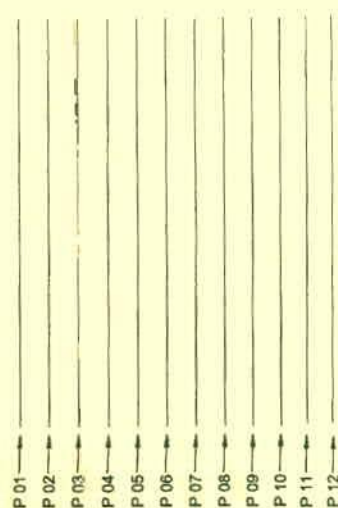
D4857-1 WIPER DEFLECTOR

RELEASED
2013-10-09
MP

NOTES:

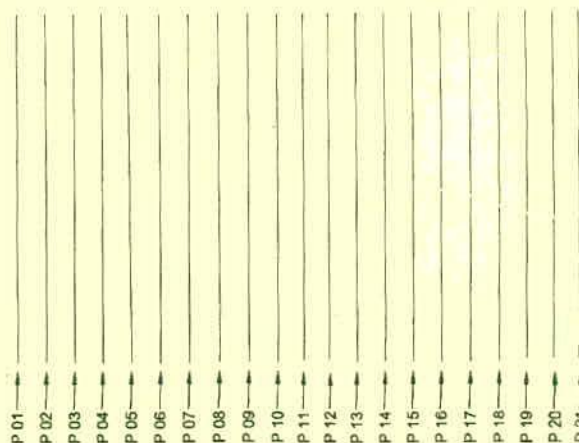
- 1 MATERIAL: KEVLAR #285/353 4H SATIN, EPOXY PREPREG, 250°F CURE, 40% R/C
- 2 MATERIAL: CARBON FIBER PREPREG, ALDILA PREPREG SYSTEM 3K2X2-FR250-204/40 T300.
- 3 MATERIAL: ALDILA #120 E-GLASS AR250 WITH 48% RC;
- 4 FINISH: PRIMER IAW MIL-P-85582, 2-7 MIL MAX.
- 5 TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 6 UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 7 BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 8 IDENTIFICATION: BAG AND IDENTIFY WITH DART P/N D4857-1, AGUSTA P/N "TBD", REVISION AND BATCH NUMBER AS PER QSI 044 METHOD 6.7
- 9 WEIGHT: 0.35 lbs (.15 kg)
- 10 PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-1-b.IGES
- 11 SEE PAGE 2 FOR LAYUP SCHEDULE. MANUFACTURE IAW MPP 145. CURE 250°F FOR 4 HOURS.

| | | | |
|------------|-----------------------------------|---|--------------|
| B | REVISED BOM, DRAWING VIEWS, NOTES | FB | 13.08.13 |
| A | NEW RELEASE | DB | 13.05.23 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | DB | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | DB | | |
| CHECKED | <i>A.P.</i> | DRAWING NO. | REV. B |
| MFG. APPR. | <i>MP</i> | D4857 | SHEET 1 OF 2 |
| APPROVED | <i>MP</i> | TITLE | SCALE |
| DE APPR. | <i>MP</i> | WIPER DEFLECTOR | NTS |
| DATE | 13.08.13 | COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DRAWING IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD. | |



LAYUP OF LAYERS (DOME)

| LAMINATE - .108in (12 LAYERS) | | | |
|-------------------------------|------------|----------|-----------|
| PLY | WARP ANGLE | MATERIAL | THICKNESS |
| 01 | 90 | [1] | .008-.010 |
| 02 | 0 | [1] | .008-.010 |
| 03 | 90 | [2] | .008-.010 |
| 04 | 0 | [2] | .008-.010 |
| 05 | 90 | [2] | .008-.010 |
| 06 | 0 | [2] | .008-.010 |
| 07 | 90 | [2] | .008-.010 |
| 08 | 0 | [2] | .008-.010 |
| 09 | 90 | [2] | .008-.010 |
| 10 | 0 | [2] | .008-.010 |
| 11 | 90 | [2] | .008-.010 |
| 12 | 0 | [2] | .008-.010 |



LAYUP OF LAYERS (FLANGE)

| LAMINATE - .189in (21 LAYERS) | | | |
|-------------------------------|------------|----------|-----------|
| PLY | WARP ANGLE | MATERIAL | THICKNESS |
| 01 | 90 | [1] | .008-.010 |
| 02 | 0 | [1] | .008-.010 |
| 03 | 90 | [2] | .008-.010 |
| 04 | 0 | [2] | .008-.010 |
| 05 | 90 | [2] | .008-.010 |
| 06 | 0 | [2] | .008-.010 |
| 07 | 90 | [2] | .008-.010 |
| 08 | 0 | [2] | .008-.010 |
| 09 | 90 | [2] | .008-.010 |
| 10 | 0 | [2] | .008-.010 |
| 11 | 90 | [2] | .008-.010 |
| 12 | 0 | [2] | .008-.010 |
| 13 | 90 | [2] | .008-.010 |
| 14 | 0 | [2] | .008-.010 |
| 15 | 90 | [2] | .008-.010 |
| 16 | 0 | [2] | .008-.010 |
| 17 | 90 | [2] | .008-.010 |
| 18 | 0 | [2] | .008-.010 |
| 19 | 90 | [2] | .008-.010 |
| 20 | 0 | [2] | .008-.010 |
| 21 | 90 | [3] | .005 |

RELEASED
2013-10-09

| | | | |
|------------|----------|-----------------------------|--------------|
| DESIGN | DB | DART AEROSPACE LTD | |
| DRAWN | DB | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | A.P. | DRAWING NO. | REV. B |
| MFG. APPR. | al | D4857 | SHEET 2 OF 2 |
| APPROVED | al | TITLE | SCALE |
| DE APPR. | al | WIPER DEFLECTOR | |
| DATE | 13.08.13 | NTS | |

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO22061**

Purchase Order Date 11/14/2013

PO Print Date 11/26/2013

Page Number 1 of 1

Order From :
CARBON BY DESIGN
4128 AVENIDA DE LA PLATA
OCEANSIDE, CALIFORNIA 92056
USA

VU-CBD001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 760-643-1300

Ship To Contact
Ship To Phone
Ship Via: FedEx PI collect
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

| Line Nbr | Reference Vendor Part Number Line Comments Delivery Comments | Description/ Mfg ID | Req Date/ Taxable Promise Date | CD | Req Qty/ Unit of Measure | PO Unit Price | Extended Price |
|----------|---|------------------------|--------------------------------------|----|-------------------------------------|---------------|-------------------|
| 2 | D4857-1P | Wiper Deflector | 11/28/2013 Yes 11/28/2013 | | 4.00 Each <i>c 2 13/11/25</i> | \$550.00 | \$2,200.00 |
| | D4857-1P | | 12/12/2013 12/12/2013 | | 6.00 Each | \$550.00 | \$3,300.00 |
| | AS PER DWG D4857 REV.B B109193 | | | | | | |

Line Total: \$5,500.00

PO Total: \$5,500.00

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.
No substitution or deviation without consent.
Certificate of Conformity or Material Certification required ☒ YES ☐ NO
PST# 6122-5207

Change Nbr: 3

Change Date: 11/26/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO22061**

Purchase Order Date 14/11/2013

PO Print Date 14/11/2013

Page Number 1 of 1

Order From :

VU-CBD001

Ship To : DART AEROSPACE LTD

CARBON BY DESIGN
4128 AVENIDA DE LA PLATA
OCEANSIDE, CALIFORNIA 92056
USA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 760-643-1300

Ship To Contact

Ship To Phone

Ship Via: FedEx PI collect

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency USD

FOB FCA - (Free Carrier)

| Line Nbr | Reference Vendor Part Number Line Comments Delivery Comments | Description/ Mfg ID | Req Date/ Taxable Promise Date | CD | Req Qty/ Unit of Measure | PO Unit Price | Extended Price |
|--------------------|---|------------------------|--------------------------------------|----|--------------------------------|---------------|-------------------|
| 1 | 109193 | Wiper Deflector | 28/11/2013 No 28/11/2013 | | 2.00 ✓ | \$550.00 | \$1,100.00 |
| | Manufacture as per Drawing D4857 Rev A B109193 | | | | | | |
| | 109193 | | 12/12/2013 | | 8.00 <i>Wced</i> | \$550.00 | \$4,400.00 |
| | Manufacture as per Drawing D4857 Rev A B109193 | | 12/12/2013 | | | | |
| Line Total: | | | | | | | \$5,500.00 |
| PO Total: | | | | | | | \$5,500.00 |

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.
No substitution or deviation without consent.
Certificate of Conformity or Material Certification required - YES NO
PST# 6122-5207

Change Nbr: 1

Change Date: 14/11/2013





carbon by design

4128 Avenida De La Plata - Occanside, CA 92056
Phone: 760-643-1300 Fax: 760-643-1333

www.carbonbydesign.com

Packaging List

Date: 11/22/2013

Packaging List No. 15868

Cage Code: 4DG17

CBD Work Order No. 7450

Customer PO No.: PO22061

Billing Address:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
613-632-5200
Fed-Ex shipping #15179324-0

Please Deliver To:

Dart Aerospace LTD
1270 Aberdeen
Hawkesbury, ON K6A 1K7
Canada

| Customer Phone | Terms | Rep | Ship Date | Ship Via | Buyer |
|----------------|--------|-----|------------|----------------|----------|
| 613-632-5200 | Net 30 | JB | 11/22/2013 | FedEx Next Day | Customer |

| Item | Line # | Description | Qty |
|-----------|--------|--|-----|
| D4857-042 | 1 | Dart, D4857-042, Rev. B, Wiper Deflector S/N: 15868-1/15868-2 | 2 |
| D4857-042 | 1 | Dart, D4857-042, Rev. B, Wiper Deflector S/N: 15868-3/15868-4 | 2 |

Pricing Good For 30 Days

Total Items: 4

SHIPPING VALUE
\$2,200.00

CERTIFICATE OF CONFORMANCE (SHORT FORM CUSTOMERS ONLY)

I certify that on _____, the Carbon by Design LP furnished the supplies or services called for by the Purchase Order Above via Delivery in accordance with all applicable requirements.

I further certify that the supplies or services are of the quality specified and conform in all respects with the contract requirements, including specifications, drawings, preservation, packaging, packing, marking requirements, and physical item identification, and are in the quantity shown in this or on the attached acceptance document.

Quality: _____ Date: _____

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**carbon by design**

11/22/2013

CERTIFICATE OF CONFORMANCE

| | | | |
|-------------------------------------|------------------------------|--------------------|---------------------------------|
| PO: No.: 22061 | DESC: Wiper Deflector | Insp: JB/JR | Packing #: 15868 |
| Customer: Dart Aerospace Ltd | Drawing: D4857 Rev B | Qty: 4 | Serials: 15868-1/15868-4 |

Work Requirements:

Statement of Work: SOW on file
Internal Process Doc.: 2206-253
Inspection Document: 2206-253
Manufacturing Process: Infusion
Security Requirement: Confidential

Approved Non-Conformances: NO**Pending:** NO**DISPOSITION:** To Customer, Ship**SHIP METHOD:** FedEx Next Day**Certification Statement:**

Carbon by Design LP certifies the items listed above conform to all of the applicable work and quality standard required in the purchase order listed above and any additional work requirements referenced.

All in process quality standards have been met according to customer requirements and Carbon by Design internal quality and finish requirements. All materials Certification are available for inspection and will remain on file at Carbon by Design for a period of no less than ten years.

Finished Materials/Process Specifications:

Per Drawing Requirements

Additional Quality Clauses:

Per PO Requirements, 100% Inspection

Active Quality Systems:

ISO9001:2008

Inspector's Name: J Rodriguez**Signature:** [Signature]**Title:** Quality Inspector **Date:** 11/22/13

